

EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|---|---|------------------|---------|---------------------|
| L1 | 4960 | (micromirror or micromirror adj device) | USPAT | OR | ON | 2010/02/27 15:14 |
| L2 | 14903 | (micromirror or micromirror adj device) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:14 |
| L3 | 1283 | (3D or 3-D or three adj dimensional\$1)adj scanner | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:18 |
| L4 | 7779 | operat\$3 and(micromirror or micromirror adj device)and(light or source or laser adj light or structural adj light or beam)and(changing or variation or modulation) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:21 |
| L5 | 210013 | (single adj bit or binary adj data or gary or grey or bit)and decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:23 |
| L6 | 857 | L2 and L5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:24 |
| L7 | 1 | L3 and L6 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:25 |

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| L8 | 825 | L4 and L6 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:25 |
| L9 | 96 | L6 and scanner | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:27 |
| L10 | 95 | L8 and L9 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:27 |
| L11 | 95 | L10 and(single adj bit or binary adj data or gary or grey or bit)and decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:28 |
| L12 | 1 | L11 and reflect\$3 and(light or source or laser adj light or structural adj light or beam)and detector and synchronized adj beam | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:29 |
| L13 | 74 | L11 and @ad<"20040115" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:30 |
| L14 | 50 | L13 and decod\$3 and reflect\$3 and(light or source or laser adj light or structural adj light or beam)and (determining or detect\$3)and object and (generat\$3 adj shape or depth or contour or edge\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:32 |
| L15 | 41 | L14 and(single adj bit or binary adj data or gary or grey or bit)same decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:37 |

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|-----|---------|--|---|----|----|---------------------|
| L16 | 0 | L14 and single adj bit adj data same decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:37 |
| L17 | 0 | L15 and pixel\$1 adj reflection same single adj bit adj data same decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:39 |
| L18 | 0 | L15 and pixel\$1 adj reflection and single adj bit adj data and decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:39 |
| L19 | 0 | L15 and pixel\$1 and reflection and single adj bit adj data and decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:40 |
| L20 | 1 | L15 and pixel\$1 and reflection and single adj bit and decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/27 15:40 |
| S1 | 5000855 | (3D or 3-D or three adj dimensional\$1 or scanner)and digital and micromirror adj device and modulate and structured and light adj signal and projected adj beam and generate and shape of an object | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/19 13:44 |
| S2 | 0 | (3D or 3-D or three adj dimensional\$1 or scanner)and digital and micromirror adj device and modulate and structured and light adj signal and projected adj beam and generate and shape adj object | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/19 13:45 |
| S3 | 0 | (3D or 3-D or three adj dimensional\$1 or scanner)and digital and micromirror adj device and modulate and structured and light adj signal and projected adj beam and generate and shape | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/19 13:45 |

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|-----|--------|--|---|----|----|---------------------|
| S4 | 0 | (3D or 3-D or three adj dimensional\$1 or scanner)and micromirror adj device and modulate and structured and light and projected adj beam and generate and shape | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/19 13:46 |
| S5 | 1 | (3D or 3-D or three adj dimensional\$1 or scanner)and micromirror adj device and structured adj light and projected adj beam and generate and shape | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/19 13:47 |
| S6 | 76884 | "382"/\$.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/19 13:57 |
| S7 | 98576 | "356"/\$.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/19 13:57 |
| S8 | 0 | S6 and(3D or 3-D or three adj dimensional\$1 or scanner)and micromirror adj device and structured adj light and projected adj beam and generate and shape | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/19 13:58 |
| S9 | 1 | S7 and(3D or 3-D or three adj dimensional\$1 or scanner)and micromirror adj device and structured adj light and projected adj beam and generate and shape | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/19 13:58 |
| S10 | 131735 | "359"/\$.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/19 13:59 |
| S11 | 0 | S10 and(3D or 3-D or three adj dimensional\$1 or scanner)and micromirror adj device and structured adj light and projected adj beam and generate and shape | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/19 14:00 |

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| S12 | 23 | ((RON) near2 (KIMMEL)).INV. | US-PGPUB; USPAT | OR | ON | 2009/07/19 14:17 |
| S13 | 0 | S12 and(3D or 3-D or three adj dimensional\$1 or scanner)and micromirror adj device and structured adj light and projected adj beam and generate and shape | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/19 14:18 |
| S14 | 1 | S12 and(3D or 3-D or three adj dimensional\$1 or scanner)and micromirror adj device and structured adj light and projected adj beam | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/19 14:18 |
| S15 | 0 | S9 and(@ad<"20040115" or @riad<"20040115" or @prad<"20040115" or @ptad<"20040115") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/07/19 14:34 |
| S17 | 0 | (3D or 3-D or three adj dimensional\$1 or scanner)and digital and micromirror adj device and modulate and structured and light adj signal and projected adj beam same object and generat\$4 adj shape | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 10:20 |
| S18 | 0 | (3D or 3-D or three adj dimensional\$1 or scanner)and digital and micromirror adj device and structured adj light and project\$3 adj beam and object and generat\$4 adj shape | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 10:22 |
| S19 | 0 | (3D or 3-D or three adj dimensional\$1 or scanner)and micromirror adj device and structured adj light and project\$3 adj beam and object and generat\$4 adj shape | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 10:23 |
| S20 | 2117 | (3D or 3-D or three adj dimensional\$1 or scanner\$1)and micromirror adj device | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 10:23 |

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| S21 | 30982 | (3D or 3-D or three adj dimensional\$1 or scanner)and micromirror adj device and (light or source or laser adj light)and project\$3 light adj beam and object and (generat\$4 adj shape or depth) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 10:25 |
| S22 | 2312 | (3D or 3-D or three adj dimensional\$1 or scanner)and micromirror adj device and (light or source or laser adj light)and project\$3 light adj beam and object and (generat\$4 adj shape or depth)adj information | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 10:26 |
| S23 | 490 | (3D or 3-D or three adj dimensional\$1 or scanner)and encod\$3 and micromirror adj device and(light or source or laser adj light or structural adj light)and project\$3 light adj beam and object and(generat\$4 adj shape or depth)adj object and(reval or reconstruct\$3)and(contour or edge or filter\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 10:34 |
| S24 | 308 | S23 and(@ad<"20040115" or @rlad<"20040115" or @prad<"20040115" or @ptad<"20040115") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 10:34 |
| S25 | 256 | S23 and @ad<"20040115" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 10:34 |
| S26 | 9 | S25 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and project\$3 same light adj beam same object same(generat\$3 adj shape or depth or contour or edge or filter\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 10:40 |
| S27 | 0 | S26 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and detector and(configured or connected) and pass\$3 adj(single adj bit or binary adj data)and decoder and(pixel\$ or pixel) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 10:45 |
| S28 | 0 | S26 and reflect\$3 and(light or source or laser adj light or structural adj light)and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data)and decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 10:47 |

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| S29 | 8 | reflect\$3 and(light or source or laser adj light or structural adj light)and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data)and decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 10:47 |
| S30 | 7 | S29 and @ad<"20040115" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 10:47 |
| S31 | 0 | S30 and(3D or 3-D or three adj dimensional\$1 or scanner)and encod\$3 and micromirror adj device and(light or source or laser adj light or structural adj light)and project\$3 and light adj beam and object and (generat\$4 adj shape or depth adj object or object)and(contour or edge or filter\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 10:50 |
| S32 | 0 | S30 and micromirror | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 10:59 |
| S33 | 0 | S29 and micromirror | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 10:59 |
| S34 | 1 | (3D or 3-D or three adj dimensional\$1 or scanner)and encod\$3 adj unit and micromirror adj device and(light or source or laser adj light or structural adj light)and project\$3 and light adj beam and object and (generat\$4 adj shape or depth)and(detect\$3 or determining)same(contour or edge\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:20 |
| S35 | 1 | encod\$3 adj unit and micromirror adj device and(light or source or laser adj light or structural adj light)and project\$3 and light adj beam and object and(generat\$4 adj shape or depth)and(detect\$3 or determining) same(contour or edge\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:21 |
| S36 | 13 | encod\$3 adj unit and micromirror adj device | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:23 |

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| S37 | 0 | S36 and reflect\$3 and(light or source or laser adj light or structural adj light)and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data)and decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:24 |
| S38 | 5 | S36 and @ad<"20040115" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:24 |
| S39 | 0 | S38 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and project\$3 same object same(generat\$3 adj shape or depth or contour or edge\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:25 |
| S40 | 1 | S36 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and project\$3 same object same(generat\$3 adj shape or depth or contour or edge\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:26 |
| S41 | 8275 | (directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:34 |
| S42 | 82 | S41 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and project\$3 same object same(generat\$3 adj shape or depth or contour or edge\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:35 |
| S43 | 36 | S42 and @ad<"20040115" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:35 |
| S44 | 420 | S41 and operat\$3 and(digital adj micromirror or micromirror adj device)and (light or source or laser adj light or structural adj light)same changing same beam | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:39 |

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|-----|----|---|---|----|----|---------------------|
| S45 | 1 | S44 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)same detector and synchronized adj beam | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:40 |
| S46 | 1 | S44 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and detector and synchronized adj beam | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:41 |
| S47 | 1 | S44 and reflect\$3 and(light or source or laser adj light or structural adj light)and detector and synchronized adj beam | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:42 |
| S48 | 0 | S44 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data)and decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:45 |
| S49 | 26 | (directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device) and operat\$3 and modulat\$3 and change adj beam | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:52 |
| S50 | 0 | S49 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and detector and synchronized adj beam | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:52 |
| S51 | 0 | S49 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and detector and synchronized and beam | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:53 |
| S52 | 0 | S49 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data)and decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:53 |

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| S53 | 10 | S49 and @ad<"20040115" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:53 |
| S54 | 0 | S53 and(light or source or laser adj light or structural adj light or laser)and detector and synchronized adj beam | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:58 |
| S55 | 0 | S53 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey)and decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 11:59 |
| S56 | 4 | S53 and decod\$3 and reflect\$3 and(light or source or laser adj light or structural adj light)and (determining or detect\$3)and object and(generat \$3 adj shape or depth or contour or edge\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 12:06 |
| S57 | 0 | S56 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey)and decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 12:06 |
| S58 | 0 | S53 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey)and decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 12:06 |
| S59 | 0 | S53 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and detector and synchronized and beam | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 12:12 |
| S60 | 0 | S56 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey)and decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 12:13 |

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| S61 | 396146 | (directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light or beam)same object | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 12:16 |
| S62 | 1 | S61 and modulat\$3 and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 12:19 |
| S63 | 1 | S61 and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 12:20 |
| S64 | 1 | S61 and calculat\$3 and mid adj level and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 12:24 |
| S65 | 7368 | 250/559.36,236,208.1,205,201.6,237G,559.38,201.4.CCLS. | USPAT | OR | ON | 2010/02/19 12:30 |
| S66 | 103 | 348/70.CCLS. | USPAT | OR | ON | 2010/02/19 12:31 |
| S67 | 1349 | 356/608,4.01,243.1,3.03,4.07.CCLS. | USPAT | OR | ON | 2010/02/19 12:32 |
| S68 | 2856 | 235/454,472.01.CCLS. | USPAT | OR | ON | 2010/02/19 12:33 |
| S69 | 491 | 396/106.CCLS. | USPAT | OR | ON | 2010/02/19 12:34 |
| S70 | 143 | 359/17,.CCLS. | USPAT | OR | ON | 2010/02/19 12:35 |
| S71 | 2492 | 358/484,474.CCLS. | USPAT | OR | ON | 2010/02/19 12:35 |
| S72 | 856 | 600/476.CCLS. | USPAT | OR | ON | 2010/02/19 12:36 |
| S73 | 2833 | S65 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or mirrors or optics) | USPAT | OR | ON | 2010/02/19 12:41 |

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|-----|-----|--|-------|----|----|---------------------|
| S74 | 102 | S73 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and project\$3 same object same(generat\$3 adj shape or depth or contour or edge\$1) | USPAT | OR | ON | 2010/02/19 12:42 |
| S75 | 1 | S74 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or mirrors or optics)and operat\$3 and modulat\$3 and change adj beam | USPAT | OR | ON | 2010/02/19 12:43 |
| S76 | 0 | S75 and @ad<"20040115" | USPAT | OR | ON | 2010/02/19 12:45 |
| S77 | 0 | S75 and decod\$3 and reflect\$3 and(light or source or laser adj light or structural adj light)and (determining or detect\$3)and object and(generat \$3 adj shape or depth or contour or edge\$1) | USPAT | OR | ON | 2010/02/19 12:46 |
| S78 | 1 | S75 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light or beam)same object | USPAT | OR | ON | 2010/02/19 12:47 |
| S79 | 0 | S78 and modulat\$3 and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | USPAT | OR | ON | 2010/02/19 12:48 |
| S80 | 0 | S78 and calculat\$3 and mid adj level and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | USPAT | OR | ON | 2010/02/19 12:49 |
| S81 | 36 | S66 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or mirrors or optics) | USPAT | OR | ON | 2010/02/19 12:50 |
| S82 | 0 | S81 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and project\$3 same object same(generat\$3 adj shape or depth or contour or edge\$1) | USPAT | OR | ON | 2010/02/19 12:50 |
| S83 | 0 | S81 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or mirrors or optics)and operat\$3 and modulat\$3 and change adj beam | USPAT | OR | ON | 2010/02/19 12:50 |
| S84 | 0 | S81 and decod\$3 and reflect\$3 and(light or source or laser adj light or structural adj light)and (determining or detect\$3)and object and(generat \$3 adj shape or depth or contour or edge\$1) | USPAT | OR | ON | 2010/02/19 12:51 |
| S85 | 31 | S81 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light or beam)same object | USPAT | OR | ON | 2010/02/19 12:51 |
| S86 | 0 | S85 and modulat\$3 and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | USPAT | OR | ON | 2010/02/19 12:54 |
| S87 | 0 | S78 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey)and decoder | USPAT | OR | ON | 2010/02/19 12:56 |

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|------|------|--|-------|----|----|---------------------|
| S88 | 0 | S85 and calculat\$3 and mid adj level and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | USPAT | OR | ON | 2010/02/19 12:56 |
| S89 | 0 | S85 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey)and decoder | USPAT | OR | ON | 2010/02/19 12:57 |
| S90 | 762 | S67 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or mirrors or optics) | USPAT | OR | ON | 2010/02/19 12:57 |
| S91 | 44 | S90 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and project\$3 same object same(generat\$3 adj shape or depth or contour or edge\$1) | USPAT | OR | ON | 2010/02/19 12:57 |
| S92 | 0 | S91 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or mirrors or optics)and operat\$3 and modulat\$3 and change adj beam | USPAT | OR | ON | 2010/02/19 12:58 |
| S93 | 7 | S91 and decod\$3 and reflect\$3 and(light or source or laser adj light or structural adj light)and (determining or detect\$3)and object and(generat \$3 adj shape or depth or contour or edge\$1) | USPAT | OR | ON | 2010/02/19 12:58 |
| S94 | 7 | S93 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light or beam)same object | USPAT | OR | ON | 2010/02/19 12:58 |
| S95 | 0 | S94 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey)and decoder | USPAT | OR | ON | 2010/02/19 12:59 |
| S96 | 0 | S94 and modulat\$3 and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | USPAT | OR | ON | 2010/02/19 12:59 |
| S97 | 0 | S94 and calculat\$3 and mid adj level and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | USPAT | OR | ON | 2010/02/19 13:00 |
| S98 | 6 | S94 and @ad<"20040115" | USPAT | OR | ON | 2010/02/19 13:00 |
| S99 | 0 | S98 and(digital adj micromirror or micromirror adj device) | USPAT | OR | ON | 2010/02/19 13:12 |
| S100 | 1397 | S68 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or mirrors or optics) | USPAT | OR | ON | 2010/02/19 13:12 |
| S101 | 63 | S100 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and project\$3 same object same (generat\$3 adj shape or depth or contour or edge\$1) | USPAT | OR | ON | 2010/02/19 13:12 |

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|------|-----|---|-------|----|----|---------------------|
| S102 | 0 | S101 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or mirrors or optics)and operat\$3 and modulat\$3 and change adj beam | USPAT | OR | ON | 2010/02/19 13:13 |
| S103 | 60 | S101 and decod\$3 and reflect\$3 and(light or source or laser adj light or structural adj light)and (determining or detect\$3)and object and(generat \$3 adj shape or depth or contour or edge\$1) | USPAT | OR | ON | 2010/02/19 13:13 |
| S104 | 60 | S103 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light or beam)same object | USPAT | OR | ON | 2010/02/19 13:14 |
| S105 | 0 | S104 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey)and decoder | USPAT | OR | ON | 2010/02/19 13:14 |
| S106 | 0 | S104 and modulat\$3 and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | USPAT | OR | ON | 2010/02/19 13:15 |
| S107 | 0 | S104 and calculat\$3 and mid adj level and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | USPAT | OR | ON | 2010/02/19 13:15 |
| S108 | 56 | S104 and @ad<"20040115" | USPAT | OR | ON | 2010/02/19 13:15 |
| S109 | 0 | S108 and(digital adj micromirror or micromirror adj device) | USPAT | OR | ON | 2010/02/19 13:16 |
| S110 | 190 | S69 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or mirrors or optics) | USPAT | OR | ON | 2010/02/19 13:16 |
| S111 | 21 | S110 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and project\$3 same object same (generat\$3 adj shape or depth or contour or edge\$1) | USPAT | OR | ON | 2010/02/19 13:17 |
| S112 | 0 | S111 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or mirrors or optics)and operat\$3 and modulat\$3 and change adj beam | USPAT | OR | ON | 2010/02/19 13:18 |
| S113 | 2 | S111 and decod\$3 and reflect\$3 and(light or source or laser adj light or structural adj light)and (determining or detect\$3)and object and(generat \$3 adj shape or depth or contour or edge\$1) | USPAT | OR | ON | 2010/02/19 13:18 |
| S114 | 2 | S113 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light or beam)same object | USPAT | OR | ON | 2010/02/19 13:19 |
| S115 | 0 | S114 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey)and decoder | USPAT | OR | ON | 2010/02/19 13:19 |
| S116 | 0 | S114 and modulat\$3 and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | USPAT | OR | ON | 2010/02/19 13:19 |

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|------|-----|---|-------|----|----|---------------------|
| S117 | 0 | S114 and calculat\$3 and mid adj level and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | USPAT | OR | ON | 2010/02/19 13:20 |
| S118 | 2 | S114 and @ad<"20040115" | USPAT | OR | ON | 2010/02/19 13:20 |
| S119 | 0 | S118 and(3D or 3-D or three adj dimensional\$1 or scanner)and digital and micromirror adj device and modulate and structured and light adj signal and projected adj beam same object and generat\$4 adj shape | USPAT | OR | ON | 2010/02/19 13:22 |
| S120 | 0 | S111 and(3D or 3-D or three adj dimensional\$1 or scanner)and digital and micromirror adj device and modulate and structured and light adj signal and projected adj beam same object and generat\$4 adj shape | USPAT | OR | ON | 2010/02/19 13:22 |
| S121 | 132 | S70 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or mirrors or optics) | USPAT | OR | ON | 2010/02/19 13:23 |
| S122 | 2 | S121 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and project\$3 same object same (generat\$3 adj shape or depth or contour or edge\$1) | USPAT | OR | ON | 2010/02/19 13:23 |
| S123 | 0 | S122 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or mirrors or optics)and operat\$3 and modulat\$3 and change adj beam | USPAT | OR | ON | 2010/02/19 13:24 |
| S124 | 0 | S122 and decod\$3 and reflect\$3 and(light or source or laser adj light or structural adj light)and (determining or detect\$3)and object and(generat \$3 adj shape or depth or contour or edge\$1) | USPAT | OR | ON | 2010/02/19 13:24 |
| S125 | 2 | S122 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light or beam)same object | USPAT | OR | ON | 2010/02/19 13:24 |
| S126 | 0 | S125 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey)and decoder | USPAT | OR | ON | 2010/02/19 13:25 |
| S127 | 0 | S125 and modulat\$3 and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | USPAT | OR | ON | 2010/02/19 13:25 |
| S128 | 0 | S125 and calculat\$3 and mid adj level and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | USPAT | OR | ON | 2010/02/19 13:25 |
| S129 | 2 | S125 and @ad<"20040115" | USPAT | OR | ON | 2010/02/19 13:26 |
| S130 | 0 | S129 and(3D or 3-D or three adj dimensional\$1 or scanner)and digital and micromirror adj device and modulate and structured and light adj signal and projected adj beam same object and generat\$4 adj shape | USPAT | OR | ON | 2010/02/19 13:30 |

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|------|------|---|-------|----|----|---------------------|
| S131 | 1159 | S71 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or mirrors or optics) | USPAT | OR | ON | 2010/02/19 13:30 |
| S132 | 5 | S131 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and project\$3 same object same (generat\$3 adj shape or depth or contour or edge\$1) | USPAT | OR | ON | 2010/02/19 13:30 |
| S133 | 0 | S132 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or mirrors or optics)and operat\$3 and modulat\$3 and change adj beam | USPAT | OR | ON | 2010/02/19 13:31 |
| S134 | 0 | S132 and decod\$3 and reflect\$3 and(light or source or laser adj light or structural adj light)and (determining or detect\$3)and object and(generat\$3 adj shape or depth or contour or edge\$1) | USPAT | OR | ON | 2010/02/19 13:31 |
| S135 | 3 | S132 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light or beam)same object | USPAT | OR | ON | 2010/02/19 13:31 |
| S136 | 0 | S132 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey)and decoder | USPAT | OR | ON | 2010/02/19 13:32 |
| S137 | 0 | S135 and modulat\$3 and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | USPAT | OR | ON | 2010/02/19 13:32 |
| S138 | 0 | S135 and calculat\$3 and mid adj level and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | USPAT | OR | ON | 2010/02/19 13:33 |
| S139 | 577 | S72 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or mirrors or optics) | USPAT | OR | ON | 2010/02/19 13:34 |
| S140 | 6 | S139 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and project\$3 same object same (generat\$3 adj shape or depth or contour or edge\$1) | USPAT | OR | ON | 2010/02/19 13:34 |
| S141 | 0 | S140 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or mirrors or optics)and operat\$3 and modulat\$3 and change adj beam | USPAT | OR | ON | 2010/02/19 13:35 |
| S142 | 0 | S140 and decod\$3 and reflect\$3 and(light or source or laser adj light or structural adj light)and (determining or detect\$3)and object and(generat\$3 adj shape or depth or contour or edge\$1) | USPAT | OR | ON | 2010/02/19 13:35 |
| S143 | 0 | S140 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey)and decoder | USPAT | OR | ON | 2010/02/19 13:35 |
| S144 | 0 | S140 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey or bit)and decoder | USPAT | OR | ON | 2010/02/19 13:36 |

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|------|--------|---|---|----|----|---------------------|
| S145 | 0 | S140 and modulat\$3 and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | USPAT | OR | ON | 2010/02/19 13:36 |
| S146 | 0 | S140 and calculat\$3 and mid adj level and light adj frame and dark adj frame and light adj beam and reach\$3 adj object | USPAT | OR | ON | 2010/02/19 13:36 |
| S147 | 523692 | (directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or optics or mirrors) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 13:59 |
| S148 | 420 | S147 and operat\$3 and(digital adj micromirror or micromirror adj device) and(light or source or laser adj light or structural adj light)same changing same beam | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 14:01 |
| S149 | 1 | S148 and reflect\$3 and(light or source or laser adj light or structural adj light)and detector and synchronized adj beam | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 14:02 |
| S150 | 0 | S149 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey or bit)and decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 14:03 |
| S151 | 0 | S148 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey or bit)and decoder | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/19 14:04 |

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